

Title (en)  
DEVICE FOR THERMALLY JOINING AT LEAST ONE WORKPIECE, COMPRISING A TORCH AND A FUME EXTRACTION UNIT

Title (de)  
VORRICHTUNG ZUM THERMISCHEN FÜGEN WENIGSTENS EINES WERKSTÜCKS MIT EINEM BRENNER UND EINER  
ABSAUGEINRICHTUNG

Title (fr)  
DISPOSITIF POUR L'ASSEMBLAGE THERMIQUE D'AU MOINS UNE PIÈCE, POURVU D'UNE TORCHE ET D'UN DISPOSITIF D'ASPIRATION

Publication  
**EP 3820643 B1 20211229 (DE)**

Application  
**EP 20737437 A 20200707**

Priority  
• DE 102019119341 A 20190717  
• EP 2020069120 W 20200707

Abstract (en)  
[origin: CA3143310A1] The invention relates to a device (10) for thermally joining workpieces, comprising a torch (1) and an extraction unit (2) for extracting fumes that are produced during welding, cutting or soldering processes. According to the invention, at least one sensor means (3) is provided for determining the position and/or position changes of the torch (1) and/or a reference point in the area relative to a reference position of the torch (1) and/or of the workpiece to be processed, in such a way that a volume flow of the extraction unit (2) acting on the torch (1) can be influenced according to the determined position and/or position change of the torch (1).

IPC 8 full level  
**B23K 9/32** (2006.01); **B23K 9/095** (2006.01)

CPC (source: CN EP KR US)  
**B08B 15/007** (2013.01 - US); **B23K 3/08** (2013.01 - CN); **B23K 9/0956** (2013.01 - EP KR US); **B23K 9/32** (2013.01 - CN);  
**B23K 9/325** (2013.01 - EP KR US); **B23K 37/00** (2013.01 - US)

Citation (examination)  
EP 2292367 B1 20120104 - EWM HIGHTEC WELDING GMBH [DE]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102019119341 A1 20210121; DE 102019119341 B4 20231026**; AU 2020315094 A1 20220106; BR 112021023884 A2 20220118;  
CA 3143310 A1 20210121; CN 113993649 A 20220128; CN 113993649 B 20240329; EP 3820643 A1 20210519; EP 3820643 B1 20211229;  
JP 2022541103 A 20220922; KR 20220034229 A 20220317; US 2022241885 A1 20220804; WO 2021008944 A1 20210121

DOCDB simple family (application)  
**DE 102019119341 A 20190717**; AU 2020315094 A 20200707; BR 112021023884 A 20200707; CA 3143310 A 20200707;  
CN 202080043432 A 20200707; EP 2020069120 W 20200707; EP 20737437 A 20200707; JP 2021573274 A 20200707;  
KR 20227005257 A 20200707; US 202017617203 A 20200707